AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

- 1 16 (Canceled)
- 17. (Currently Amended) A process for forming a copper alloy having high electrical conductivity, good resistance to stress relaxation and isotropic bend properties, comprising the steps of:

casting a copper alloy that contains, by weight, from 0.15% to 0.7% of chromium, 0.005% to 0.10% Silver, and the balance copper and inevitable impurities;

hot working said copper alloy at a temperature of between 700 ℃ and 1030 ℃;

cold working said copper alloy to a thickness reduction of from 40% to 99% in thickness:

annealing said copper alloy in a first age anneal at a temperature of from 350% to 900% for from 1 minute to 10 hours; and

removing said copper alloy from the first age anneal temperature of 350 ℃ to 900 ℃, and subsequently annealing said copper alloy in a second age anneal at a temperature of from 300 ℃ to 450 ℃ for from one hour to twenty hours.

- 18. (Original) The process of claim 17 wherein said cast copper alloy further contains from 0.01% to 0.15% of titanium, from 0.01% to 0.10% of silicon, up to 0.2% of iron and up to 0.5% of tin.
- 19. (Previously Presented) The process of claim 18 wherein said hot working is hot rolling at a temperature of between 750 ℃ and 1030 ℃ to form a strip and a solution anneal at a temperature of from 850 ℃ to 1030 ℃ for from 10 seconds to 15 minutes

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followed by a quench from a temperature in excess of $850\,^\circ$ C to less than $500\,^\circ$ C is interposed between said hot working and said cold working.

- 20. (Original) The process of claim 19 wherein said hot rolling is at a temperature of from 900 °C and 1020 °C and is followed by a water quench.
- 21. (Original) The process of claim 19 wherein said solution annealing step is a strip anneal at temperature of from 900 ℃ to 1000 ℃ for from 15 seconds to 10 minutes.
- 22. (Original) The process of claim 21 wherein said solution annealing step is at a temperature of from 930 °C to 980 °C for from 20 seconds to 5 minutes.
- 23. (Previously presented) The process of claim 21 wherein said second age anneal is at a temperature of from 350°C to 420°C for from five to seven hours.
- 24. (Original) The process of claim 23 wherein said first age anneal is at a temperature of from 350 ℃ to 550 ℃ for from 1hour to 10 hours.
- 25. (Original) The process of claim 24 wherein said first age anneal is at a temperature of from 400 °C to 500 °C and said second age anneal is at a temperature of from 350 °C to 420 °C.
- (Original) The process of claim 25 wherein said first age anneal is for from one to three hours and said second anneal is for from five to seven hours.
- 27. (Original) The process of claim 24 including the step of forming an electrical connector having improved resistance to stress relaxation following said second age anneal.
- (Original) The process of claim 21 including the steps of cold rolling and stress relief annealing following said first age anneal.
- (Previously Presented) The process of claim 80 wherein said cold rolling following said first age anneal is 10% to 50% reduction in thickness and said stress

- 30. (Previously Presented) The process of claim 29 including the step of forming an electrical connector from said copper alloy following said stress relief anneal.
- (Original) The process of claim 24 including the steps of cold rolling and stress relief annealing following said second age anneal.
- 32. (Original) The process of claim 31 wherein said cold rolling following said second age anneal is for a 10% to 50% reduction in thickness and said stress relief anneal is at a temperature of from 200 °C to 500 °C for from 10 seconds to 10 hours.
- (Original) The process of claim 32 including the step of forming an electrical connector from said copper alloy following said stress relief anneal.
- 34. (Currently Amended) A process for forming a copper alloy having high electrical conductivity, good resistance to stress relaxation and isotropic bend properties, comprising the steps of:

casting a copper alloy that contains, by weight, from 0.15% to 0.7% of chromium, 0.005% to 0.10% Silver, and the a balance copper and inevitable impurities via a continuous process whereby said copper alloy is cast as a strip with a thickness of from about 0.4 inch to 1 inch:

cold rolling said strip to a thickness effective for strip solution annealing;

cold working said copper alloy to a thickness reduction of from 40% to 80% in thickness:

annealing said copper alloy in a first age anneal at a temperature of from 350% to 900% for from 1 minute to 10 hours; and

removing said copper alloy from the first age anneal temperature of 350 ℃ to 900 ℃, and subsequently annealing said copper alloy in a second age anneal at a temperature of from 300 ℃ to 450 ℃ for from one hour to twenty hours.

- 35. (Previously Presented) The process of claim 21 wherein said casting step forms a rectangular ingot that is reduced to strip by said hot rolling followed by said cold working as cold rolling.
- 36. (Previously Presented) The process of claim 35 wherein said cold rolling step said strip is reduced in thickness by from 25% to 90%.
- 37. (Previously Presented) The process of claim 36 including a stress relief anneal step following said cold rolling, said stress anneal step being at a temperature of 200 °C to 500 °C for from 10 seconds to 10 hours.
- 38. (Original) The process of claim 37 including the step of forming an electrical connector having high strength and high electrical conductivity following said stress relief anneal step.
- 39. (Previously Presented) The process of claim 18 wherein said hot working is drawing at a temperature of between 700 ℃ and 1030 ℃ to form a rod of said copper alloy.
- 40. (Previously Presented) The process of claim 39 wherein said hot drawing is at a temperature of between 930 ℃ and 1020 ℃ and is followed by a water quench.

- 41. (Previously Presented) The process of claim 39 wherein said cold working is drawing with an area reduction of up to 98% and said annealing is at a temperature of from 350 °C to 900 °C for from 1 minute to 6 hours.
- 42. (Original) The process of claim 41 wherein said cold working and said annealing steps are repeated at least one additional time.
- 43. (Previously Presented) The process of claim 42 wherein said rod is cold drawn for an area reduction of up to 98% following a last of said annealing steps.
- (Original) The process of claim 43 including forming a rod having high strength and high electrical conductivity.
- 45. (Original) The process of claim 43 including forming a wire having high strength and high electrical conductivity.
- 46. (Previously Presented) The process of claim 17 wherein said hot working is hot rolling at a temperature of between 750 ℃ and 1030 ℃ to form a strip and a solution anneal at a temperature of from 850 ℃ to 1030 ℃ for from 10 seconds to 15 minutes following by a quench from a temperature in excess of 850 ℃ to less than 500 ℃ is interposed between said hot working and said cold working.
- 47. (Original) The process of claim 46 wherein said hot rolling is at a temperature of from 900 ℃ and 1020 ℃ and is followed by a water quench.
- 48. (Original) The process of claim 46 wherein said solution annealing step is a strip anneal at temperature of from 900 ℃ to 1000 ℃ for from 15 seconds to 10 minutes.
- 49. (Original) The process of claim 48 wherein said solution annealing step is at a temperature of from 930 ℃ to 980 ℃ for from 20 seconds to 5 minutes.
- 50. (Previously Presented) The process of claim 81 wherein said first age anneal is at a temperature of 350 ℃ to 550 ℃ for from 1 hour to 10 hours.

- 51. (Previously Presented) The process of claim 50 wherein said first age anneal is at a temperature of from 400 ℃ to 500 ℃ and said second age anneal is at a temperature of from 350 ℃ to 420 ℃.
- 52. (Original) The process of claim 51 wherein said first age anneal is for from one to three hours and said second anneal is for from five to seven hours.
- 53. (Original) The process of claim 48 including the steps of cold rolling and stress relief annealing following said first age anneal.
- 54. (Original) The process of claim 53 wherein said cold rolling following said first age anneal is 10% to 50% reduction in thickness and said stress relief anneal is at a temperature of from 200 ℃ to 500 ℃ for from 10 seconds to 10 hours.
 - 55 78. (Canceled)
- (Previously Presented) The process of claim 19 further including up-stream cold working said copper alloy subsequent to casting and before hot rolling.
- 80. (Previously Presented) The process of claim 28 further including up-stream cold working said copper alloy subsequent to casting and before hot rolling.
- 81. (Previously Presented) The process of claim 49 including a second age anneal subsequent to said first age anneal wherein said second age anneal is at a temperature of from 300 ℃ to 450 ℃ for from one hour to 20 hours.